

BIBLIOGRAPHY.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

Algué, José.

Barocyclometer. 2d ed. Manila. 1920. 30 p. plates. map. 29 cm. (Reprint from the author's "Cyclones of the Far East.")

Ångström, Anders.

Az solens strålning variabel? Med anledning av Professor Granqvists uppsats med samma titel i Fysikersamfundets årsbok Kosmos. Stockholm. 1921. 18 p. illus. 21½ cm. (Särtr. ur Tidskr. för elem. matem., fysik och kemi. Årg. 5. H. 2.) Studies of the frost problem. no. 2. [Stockholm.] 1921. p. 278-290. 28 cm.

Braak, C.

Het klimaat van Nederlandsch-Indie. v. 1. pt. 1. 7, 63, 18 p. plate. 27½ cm. (With English summaries.) [K. Mag. en met. obs. Batavia. Verhandelingen no. 8.]

Dobrowolski, A. B.

Les cristaux de glace. 53 p. illus. 23 cm. (Arkiv för kemi, min. och geol., Bd. 6, no. 7.)

Granqvist, Gunnar.

Isarna vintern 1913-14 vid Finlands kust. Helsingfors. 1920. 63 p. illus. 24 cm. (Havsforskningsinstitutets skrift no. 3.)

Great Britain. Advisory committee for aeronautics.

Reports and memoranda. London. 1920-1921.

Notes on the Robinson anemometer. By F. J. W. Whipple. 10 p. 24½ cm. (no. 669.)

Measurement of turbulence in the atmosphere by the spreading of a smoke trail. By G. M. B. Dobson. 4 p. plates. 24½ cm. (no. 671.)

Great Britain. Aeronautical research committee.

Reports and memoranda. London. 1921.

Note on recording instrument for kite balloon. By G. L. Smith. 4 p. plates. 24½ cm. (no. 701.)

Note on landing in fog. By F. A. Lindemann. 6 p. 24½ cm. (no. 726.)

Fog and its dispersion. 10 p. 24½ cm. (no. 727.)

Hamilton, G. H.

Martian observations, 1920; emphasizing the meteorological conditions. [Flagstaff, Ariz. 1921.] p. 75-83. 33 cm. (Lowell observatory. Bulletin no. 83.)

Matteuzzi, L.

Le nubi fondamentali; formazione, aspetto, classificazione. Roma. 1921. 13 p. 22 plates. 34 cm.

Putnam, George R.

Radio fog signals and their use in navigation in connection with the radio compass. Washington. 1921. 10 p. plate. map. 28 cm.

Réthly, Antal.

Die Erdbebenkarte Ungarns. Leipzig. 1914. p. 283-305. plate. 22½ cm.

Időjárás és éghajlat. [Weather and climate.] Budapest. 1921. 200 p. illus. 21½ cm. [Ethika-könyvtár. 4.]

Robbins, William J.

Precipitation and the growth of oaks at Columbia, Missouri. Columbia. 1921. 21 p. illus. plate. 23 cm. (Univ. of Mo., Agric. exper. station. Research bulletin 44.)

Shollenberger, J. H.

Influence of relative humidity and moisture content of wheat on milling yields and moisture content of flour. Washington. 1921. 12 p. illus. 25½ cm. (U. S. Dept. agric. Bulletin 1013.)

Visser, S. W.

On the distribution of earthquakes in the Netherlands East Indian archipelago, 1909-1919; with a discussion of time tables. Batavia. 1921. 77 p. illus. plates. 27½ cm. (K. Mag. en met. obs. Batavia. Verhandelingen no. 7.)

Wegener, Kurt.

Generation of low pressure regions. (Trans. by W. W. Reed.) MS. 1921. 31 p. 26½ cm.

RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

C. F. TALMAN, Professor in Charge of Library.

The following titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

Ae. Los Angeles, Calif. v. 3. Nov., 1921.

Carpenter, Ford A. University course in meteorology. p. 5.

American society of civil engineers. Proceedings. N. Y. v. 47. Dec. 1921.

Stevens, J. C. Winter overflow from ice gorging on shallow streams. p. 583-602.

American society of heating and ventilating engineers. Journal. New York. v. 28. Jan., 1922.

Hallett, Edwin S. Ozone in the St. Louis schools. p. 53-60.

Kratz, A. P. Tests of humidity conditions in a residence heated by a warm-air furnace using recirculated air. p. 11-20.

Annalen der Hydrographie und maritimen Meteorologie. Berlin. 49. Jahrg. Sept., 1921.

Kahlke, S. Meteorschweife und hochatmosphärische Windströmungen. p. 294-299. [With extensive bibliography.]

Annalen der Physik. Leipzig. Bd. 66, No. 18. 1921.

Wigand, Albert. Die elektrische Leitfähigkeit in der freien Atmosphäre, nach Messungen bei Hochfahrten im Freiballon. p. 81-109.

Annales de géographie. Paris. 30 année. 15 nov., 1921.

Bénévent, E. Les précipitations en Norvège. p. 428-442.

Astrophysical journal. Chicago. v. 54. Dec., 1921.

Fabry, Charles & H. Buisson. A study of the ultra-violet end of the solar spectrum. p. 297-322. [Abstract.]

Beiträge zur Physik der freien Atmosphäre. Leipzig. Bd. 10. H. 1. 31. Okt., 1921.

Ficker, Dr. Heinrich. Die Beziehungen zwischen Druck und Temperatur in der freien Atmosphäre. p. 51-62.

Hergesell, H. Die deutsche geophysikalische Station auf Teneriffa. p. 15-16.

Kleinschmidt, E. Der tägliche Gang des Windes in der freien Atmosphäre und auf Berggipfeln. p. 1-14.

Peppler, E. Reif- und Eisbildung in der freien Atmosphäre. p. 38-50.

Tschirner, B. Der Temperaturlanggang in drei Höhenstationen auf Teneriffa. p. 17-37.

Ciel et terre. Bruxelles. 36 an. & 37 an.

Bjerknes, J. Sur la structure des cyclones en mouvement. 36 an., nov.-déc., 1920. p. 237-243; 37 an., jan.-fév., 1921. p. 22-26.

Ciel et terre. Bruxelles. 37 an. 1921.

Jaumotte, J. Note sur l'actinomètre de Violle à boules conjuguées. p. 120-128. (Juil.-août, 1921.)

Navarro-Neumann, Manuel Ma. S. Formule empirique simple pour le calcul de la température moyenne d'une localité, en fonction de sa latitude et de son altitude. p. 137-139. (Juil.-août, 1921.)

Poskin, P. La pluie est-elle un engrais? p. 117-120. (Juil.-août, 1921.)

Counson, L. Les bornes de l'atmosphère. p. 164-171. (Sept.-oct., 1921.)

Van Aerchotdt, L. Julius von Hann. p. 183-184. (Sept.-oct., 1921.) [Obituary.]

Verrua, P. Le double coucher de soleil à Isola du Gran Sasso. p. 158-162. (Sept.-oct., 1921.) [Description of alpenglow in the Apennines.]

- Engineering news-record.* N. Y. v. 87. Dec. 29, 1921.
Meyer, Adolph F. The probable frequency of given rates of rainfall. p. 1067-1069.
- France. Académie des sciences. Comptes rendus.* Paris. t. 173. 1921.
Besson, L., & H. Dutheil. Relations entre la direction des cirrus à Paris et la situation barométrique en Europe. p. 1104-1106. (28 nov.)
- Dunoyer, L.** Sur la détermination graphique des vents moyens. p. 1101-1104. (28 nov.)
- Eblé, M. L.** Sur la périodicité de l'agitation microsismique. p. 1193-1196. (5 déc.)
- Boutaric, A.** Le rayonnement nocturne au mont Blanc. p. 1392-1394. (19 déc.) [Abstract in this REVIEW, p. 666.]
- Geographical journal.* London. v. 59. Jan., 1922.
Migeod, F. W. H. Notes on the seasons in equatorial Africa. p. 52-55.
- Geographical review.* New York. Jan., 1922.
Huntington, Ellsworth. The evolution of climate in North-western Europe: a review. p. 126-130.
- Huntington, Ellsworth.** Peat deposits as evidence of climatic change. (Physical geography.) p. 142-143.
- Novakovsky, Stanislaus.** Climatic provinces of the Russian Far East in relation to human activities. p. 100-115.
- Ward, Robert de C.** Composite temperature types of the United States. p. 116-125.
- Géographie.* Paris. t. 36. Nov., 1921.
Rouch, J. Le climat de la mer de Ross et du Pôle Sud. p. 465-488. [Summary of existing knowledge concerning the climate of the Antarctic.]
- Heating and ventilating magazine.* Cooperstown, N. Y. v. 18. Dec., 1921.
Hill, E. Vernon, & John H. Aeberly. What about ozone? Details of the recently completed Chicago tests to determine the status of ozone for ventilation. II. Reports of experiments. p. 29-33.
- Meteorological magazine.* London. v. 56. 1921.
Whipple, F. J. W. Case for the modern units in meteorology. 1. Rainfall. p. 145-147. (July.) 2. Pressure. p. 180-183. (Aug.)
- Long-range forecasts.** p. 279-282. (Nov.) [Forecast covering a fortnight issued by Met'l Office. Cf. note in this REVIEW, p. 666.]
- Mill, Hugh Robert.** William Speirs Bruce, LL. D. p. 302-303. (Nov.) [Obituary.]
- S., G. C.** Julius von Hann. p. 300-302. (Nov.) [Obituary.]
- W., F. J. W.** Meteor trails and upper air currents. p. 292-293. (Nov.) [Abstract of paper by Kahlke.]
- Deeley, R. M.** The sun and the weather. p. 313-316. (Dec.)
- Denning, W. F.** Meteor trails and upper air currents. p. 326-327. (Dec.)
- J., H.** Audibility of the Oppau explosion in England. p. 277-279. (Nov.)
- Rate of rainfall recorder.** p. 329-333. (Dec.)
- Paris. Services techniques d'hygiène. Annales.* t. I. 1921.
Besson, Louis. La classification détaillée des nuages en usage à l'observatoire de Montsouris. p. 297-318.
- Besson, L.** Mesure de la hauteur des nuages. p. 287-296.
- Besson, Louis.** Sur la comparaison des résultats météorologiques et des effets du hasard. p. 319-342.
- Besson, Louis.** La transparence de l'air à Paris. p. 267-280.
- Besson, L., & H. Dutheil.** La brume élevée de 1919. p. 281-286.
- Physikalische Zeitschrift.* Leipzig. v. 22. 1/15. Nov., 1921.
Wigand, Albert. Der vertikale Leitungsstrom in der Atmosphäre und die Erhaltung des elektrostatischen Erdfeldes. p. 623-625.
- Rivière du ciel.* Bourges. 6 an. no. 63. déc., 1921.
Moreux, Th. Où en est la prévision du temps. p. 1191-1194.
- Royal astronomical society of Canada. Journal.* Toronto. v. 15. Dec., 1921.
Hunter, A. F. Rainbows, fogbows, and their associated phenomena. p. 345-358.
- Royal society of Edinburgh. Transactions.* Edinburgh. v. 52, pt. 4. Session 1920-21.
- Wordie, J. M.** Shackleton antarctic expedition, 1914-17: the natural history of pack-ice as observed in the Weddell sea. p. 795-829.
- Royal society of London. Proceedings.* London. Ser. A., v. 100. Jan. 2, 1921.
Rayleigh, Lord. The aurora line in the spectrum of the night sky. p. 367-378.
- Science.* New York. v. 54. Dec. 23, 1921.
Sanford, Fernando. An electrical effect of the aurora. p. 637-638.
- Scientific American.* New York. Feb., 1922.
Georgian, D. H. How Jack Frost stimulates plant growth. p. 122-123.
- Società meteorologica italiana. Bollettino bimensuale.* Torino. v. 40. Ott.-dic., 1921.
Furlani, Giambattista. Osservazioni sopra l'influenza dell'eruzione Katmai sulla intensità di radiazione, fatte nella Venezia Giulia. p. 70-88.
- Guerrieri, Eugenio.** L'estate ultra-precoce ed altre peculiari caratteristiche della temperatura dell'aria a Napoli nell'anno 1920. p. 61-69.
- Société météorologique de France. Annuaire.* Paris. t. 65. fasc. 1. 1921.
Besson, L. Sur l'actinomètre d'Arago. p. 15-17.
- Sarazin, M.** Crue de la Seine en décembre 1919-janvier 1920. p. 1-7.
- Sécheresse en 1921.** p. 13-14.
- Typeos-Rochester.* Rochester, N. Y. v. 11. Jan., 1922.
Carrington, Hereward. Can we control the weather? p. 20-21. [Reprint from Leslie's weekly.]
- Flora, S. D.** The most important instrument of the Weather Bureau. p. 10-11.
- Hubbard, Henry D.** What made the weather so hot last summer? p. 18-19.
- Sloane, T. O'Conor.** Can we make rain? p. 7-9: 27. [Reprint from Science and invention.]
- What is a hailstone?** p. 25-26. [Reprint from Science and invention.]